## AMENDMENTS TO THE CLAIMS

## Listing of the Claims

Claims 1-55 (canceled)

Claims 56-57 (withdrawn)

- 58. (currently amended) An *in vitro* method for identifying the repertoire of NKR inhibitory immunoreceptors within a subject wherein said immunoreceptors are selected from the group consisting of p58.1, p58.2, p70.INH, p140.NH, NKG2A and NKG2B receptors, these immunoreceptors being designated hereinafter target receptors, comprising:
  - least one pair of oligonucleotides, one being designated a 3' oligonucleotide and the other a 5' oligonucleotide, and wherein the 3' and 5' oligonucleotides hybridize in a buffer comprising 20 mM Tris-HC1, pH 8.4; 50 mM KCl; 2.5 mM MgCl<sub>2</sub> at a temperature of between 50°C and 65°C, to a nucleic acid encoding a target receptor, but do not hybridize, under the same hybridization conditions, with a NKR activatory immunoreceptor counterpart and wherein;
    - (a) the 5' oligonucleotide comprises the sequence of SEQ ID

      No.1, and at least one 3' oligonucleotide selected from the

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- group of 3' oligonucleotides comprising the sequence of SEQ ID No. 5, No. 2, No. 6 or No. 7; or
- (b) the 5' oligonucleotide comprises the sequence of SEQ ID

  No. 4 and at least one 3' oligonucleotide selected from the

  group of 3' oligonucleotide comprising the sequence of

  SEQ ID No. 5, No. 2, No. 6 or No. 7, or a sequence which

  is derived therefrom; or
- (c) the 5' oligonucleotide comprises the sequence of SEQ ID No. 9, or a sequence which is derived therefrom, and at least one 3' oligonucleotide selected from the group of 3' oligonucleotides comprising the sequence SEQ ID No. 5, No. 2, No. θ 6 or No. 7, or a sequence which is derived therefrom; or
- (d) at least one 5' oligonucleotide comprising the sequence of SEQ ID No. 10, No. 11, No. 12 or No. 13 is selected from the group consisting of a 3' oligonucleotide comprising the sequence SEQ ID No. 14, or a sequence which is derived therefrom; and
- (ii) detecting hybridization between the nucleic acid encoding the

NKR inhibitory immunoreceptor and the 3' and 5' oligonucleotide pair(s), wherein detection of hybridization between the nucleic acid encoding the NKR inhibitory immunoreceptor and the 3' and 5' oligonucleotide pair(s)identifies the repetoire of NKR inhibitory receptors.

- 59. (Previously presented) An *in vitro* method for identifying the repertoire of NKR activatory immunoreceptors within a subject wherein said immunoreceptors are selected from the group consisting of p50.1, p50.2, p70.ACT. p140.ACT, NKG2C, NKG2D, NKG2E and NKG2F, these immunoreceptors being designated hereinafter target receptors, comprising:
  - with at least one pair of oligonucleotides, one being designated a 3' oligonucleotide and the other a 5' oligonucleotide, wherein the 3' and 5' oligonucleotides hybridize in a buffer comprising 20 mM Tris-HC1, pH 8.4; 50 mM KCl; 2.5 mM MgCl<sub>2</sub> at a temperature of between 50°C and 65°C, to a nucleic acid encoding a target receptor, but do not hybridize, under the same hybridization conditions, with a NKR inhibitory immunoreceptor counterpart and wherein;

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- the 3' oligonucleotide of a said 3' and 5' oligonucleotide

  pair, used for determining the repertoire of NKR activatory
  immunoreceptors, is capable, under the same said

  hybridization conditions, of hybridizing to a nucleic acid
  encoding KAR target receptor wherein said nucleic acid
  encodes the amino acid sequence Lys Ile Pro Phe Thr Ile

  (K I P F T I) or Lys Leu Pro Phe Thr Ile (K L P F T I)

  (SEQ ID No. 26 or 27); or
- (b) the 5' oligonucleotide comprises the sequence of SEQ ID

  No. 1 and a 3' oligonucleotide comprising the sequence of

  SEQ ID No. 3;or
- (c) the 5' oligonucleotide comprises the sequence of SEQ ID

  No. 8 and a 3' oligonucleotide comprising the sequence of

  SEQ ID No. 3; or
- (d) the 5' oligonucleotide comprising the sequence of SEQ ID

  No. 9 and a 3' oligonucleotide comprising the sequence

  SEQ ID No. 3; or
- (e) the 5' oligonucleotide comprises the sequence of SEQ IDNo. 15 and a 3' oligonucleotide comprising the sequenceSEQ ID No.13; and

(ii) detecting hybridization between the nucleic acid encoding the NKR activatory immunoreceptor and the 3' and 5' oligonucleotide pair(s),

wherein detection of hybridization between the nucleic acid encoding the NKR activatory immunoreceptor and the 3' and 5' oligonucleotide pair(s)identifies the repetoire of NKR activatory receptors.

- 60. (Previously presented) An *in vitro* method for identifying the repertoire of NKR inhibitory immunoreceptors within a subject wherein said immunoreceptors are selected from the group consisting of p58.1, p58.2, p70.INH, p140.NH, NKG2A and NKG2B receptors, these immunoreceptors being designated hereinafter target receptors, comprising:
  - (i) contacting a nucleic acid sample derived from said subject with at least one pair of oligonucleotides, one being designated a 3' oligonucleotide and the other a 5' oligonucleotide, and wherein the 3' and 5' oligonucleotides hybridize in a buffer comprising 20 mM Tris-HC1, pH 8.4; 50 mM KC1; 2.5 mM MgCl<sub>2</sub> at a temperature of between 50°C and 65°C, to a nucleic acid encoding a target receptor, but do not hybridize, under the same hybridization conditions, with a NKR activatory immunoreceptor counterpart

and wherein said 3' and 5' oligonucleotide pairs are selected from the group consisting of:

- (a) a 5' oligonucleotide comprising the sequence of SEQ ID

  No. 16 and a 3' oligonucleotide comprising the sequence

  SEQ ID No. 17;
- (b) a 5' oligonucleotide comprising the sequence of SEQ ID

  No. 18 and a 3' oligonucleotide comprising the sequence

  SEQ ID No. 17;
- (c) a 5' oligonucleotide comprising the sequence of SEQ ID

  No. 19 and a 3' oligonucleotide comprising the sequence

  SEQ ID No. 17; and
- (d) a 5' oligonucleotide comprising the sequence of SEQ ID

  No. 20 and a 3' oligonucleotide comprising the sequence

  SEQ ID No. 21; and
- (ii) detecting hybridization between the nucleic acid encoding the NKR inhibitory immunoreceptor and the 3' and 5' oligonucleotide pair(s),

wherein detection of hybridization between the nucleic acid encoding the NKR inhibitory immunoreceptor and the 3' and 5' oligonucleotide pair(s)identifies the repetoire of NKR inhibitory receptors.

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- 61. (Previously presented) An *in vitro* method for identifying the repertoire of NKR activatory immunoreceptors within a subject wherein said immunoreceptors are selected from the group consisting of p50.1, p50.2, p70.ACT. p140.ACT, NKG2C, NKG2D, NKG2E and NKG2F, these immunoreceptors being designated hereinafter target receptors, comprising:
  - with at least one pair of oligonucleotides, one being designated a 3' oligonucleotide and the other a 5' oligonucleotide, wherein the 3' and 5' oligonucleotides hybridize in a buffer comprising 20 mM Tris-HC1, pH 8.4; 50 mM KCl; 2.5 mM MgCl<sub>2</sub> at a temperature of between 50°C and 65°C, to a nucleic acid encoding a target receptor, but do not hybridize, under the same hybridization conditions, with a NKR inhibitory immunoreceptor counterpart and wherein said 3' and 5' oligonucleotide pairs are selected from the group consisting of:
    - (a) a 5' oligonucleotide comprising the sequence of SEQ ID
       No. 16 and a 3' oligonucleotide comprising the sequence
       SEQ ID No. 17;
    - (b) a 5' oligonucleotide comprising the sequence of SEQ ID
       No. 18 and a 3' oligonucleotide comprising the sequence
       SEQ ID No. 17;

- (c) a 5' oligonucleotide comprising the sequence of SEQ ID

  No. 19 and a 3' oligonucleotide comprising the sequence

  SEQ ID No. 17; and
- (d) a 5' oligonucleotide comprising the sequence of SEQ ID
   No. 20 and a 3' oligonucleotide comprising the sequence
   SEQ ID No. 21; and
- (ii) detecting hybridization between the nucleic acid encoding the NKR activatory immunoreceptor and the 3' and 5' oligonucleotide pair(s),

wherein detection of hybridization between the nucleic acid encoding the NKR activatory immunoreceptor and the 3' and 5' oligonucleotide pair(s)identifies the repetoire of NKR activatory receptors.

- 62. (Previously presented) The method of claim 58, 59, 60 or 61 wherein said method is used to predict or to monitor the acceptance or rejection, by a subject, of cells, tissue or organ which are genetically different.
- 63. (Previously presented) The method according to claim 58, 59, 60 or 61 wherein said method is used to predict or to monitor the safety or the pathogenicity (GVH), for a subject, of a graft or transplant, of cells, tissue or organ which are genetically different.

- 64. (Previously presented) The method according to claim 58, 59, 60 or 61 wherein said method is used to predict or to monitor for a subject of a GVL-type effect on the part of cells, tissue or organ which are genetically different.
- 65. (Previously presented) The method of claim 58, 59, 60 or 61 wherein said method is used to determine the state of activation of NK and/or T cells within a subject.
- 66. (Previously presented) The method of claim 58, 59, 60 or 61 wherein said method is used to predict or monitor the state of resistance of a subject to (i) infection, wherein said infection is viral, parasitic or bacterial (ii) autoimmune disease, or (iii) the development of malignant cells.
- 67. (Previously presented) The method of claim 58, 59, 60 or 61 wherein said method is used to screen for compositions which are used to reduce the symptoms associated with infectious autoimmune or proliferation disorders.
- 68. (Previously presented) A kit for carrying out the method of claim 58, 59, 60 or 61 comprising a container, at least one said 3' and 5' oligonucleotide paid, and reagents for carrying out the said method.
- 69. (Previously presented) The kit of claim 68 wherein said 3' and 5' oligonucleotide pair is coupled to a marker.
- 70. (Previously presented) The method of claim 58, 59, 60 or 61 wherein the 3' or 5' oligonucleotides are coupled to a marker, allowing detection of hybridization between the nucleic acid sample and the 3' and 5' oligonucleotides.

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- 71. (Previously presented) The method of claim 70 wherein the marker is a fluorescence marker.
- 72. (Previously presented) The method of claim 70 wherein the marker is a radioactive marker.
- 73. (Previously presented) The method of claim 58, 59, 60 or 61 wherein the 3' and 5' oligonucleotide pair(s) serve(s) as 3' and 5' primers, respectively, for extension by DNA polymerase.
- 74. (Previously presented) The method of claim 58, 59, 60 or 61 wherein hybridization between the nucleic acid sample and the 3' and 5' oligonucleotide pair is detected by PCR amplification.
- 75. (Previously presented) The method of claim 58, 59, 60 or 61 wherein amplification is by nested PCR.
- 76. (Previously presented) The method of claim 58, 59, 60 or 61 wherein the hybridization between the nucleic acid molecule encoding the NKR activatory or inhibitory immunoreceptors and the 3' and 5' oligonucleotide pairs is detected by resolution and visualization on a polyacrylamide gel and visualization of electrophoretic bands containing the said hybrids.
- 77. (Previously presented) The method of claim 58 wherein said method is used to document the genotypic repertoire of KIR immunoreceptors.